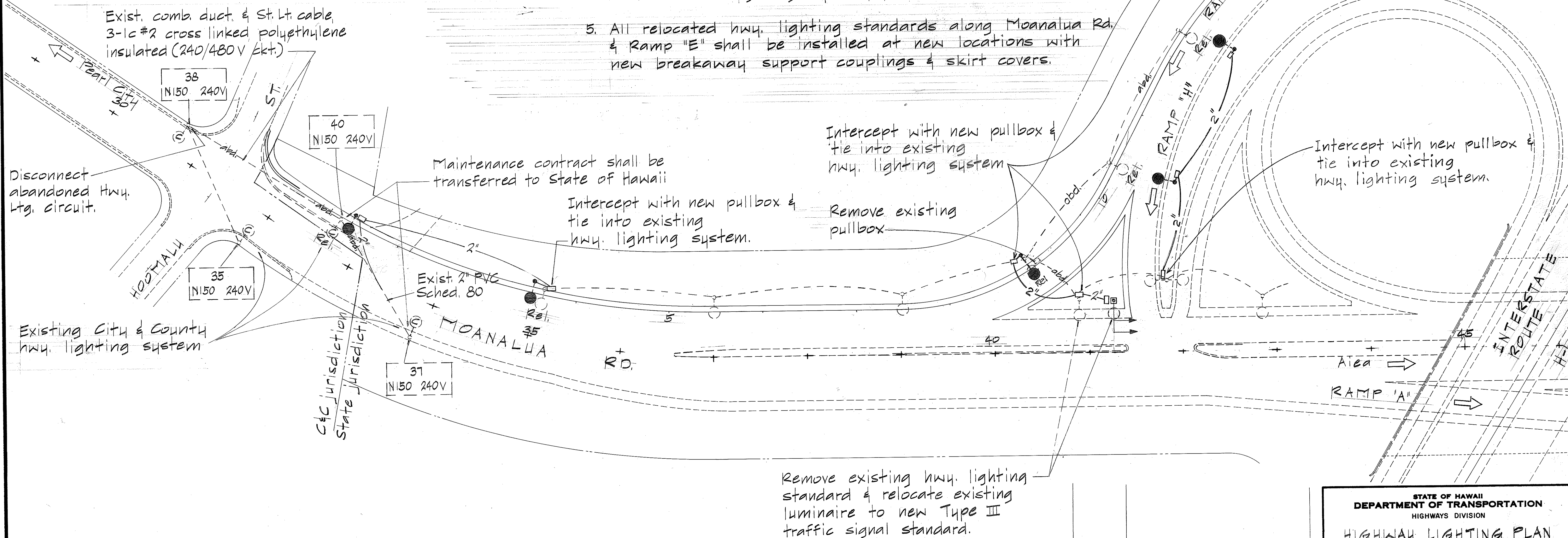


LEGEND

- Existing hwy. lighting standard (State owned).
- Existing hwy. lighting standard (City owned).
- Existing hwy. lighting to be relocated.
- Relocated hwy. lighting standard.
- New Type "B" pullbox.
- Existing hwy. lighting conduit.
- New 2" conduit w/ 2-1c #2 & #8 bare copper ground wire.
- Existing hwy. lighting conduit to be abandoned or removed as directed by the Engineer.

GENERAL NOTES

- The final locations of all hwy. lighting equipment shall be approved by the Engineer.
- All existing hwy. lighting equipment not incorporated into the final lighting system shall be abandoned or removed as directed by the Engineer.
- Locations of existing underground structures & utilities including culverts, pipelines, conduits, cables etc. as shown on the plans are approximate only. The Contractor shall assume that existing utilities may exist, although not shown. The Contractor shall verify the locations of existing utilities with the respective owners prior to start of construction.
- The Contractor shall notify the Electrical & Maintenance Services Division, Dept. of Transportation Services, City & County of Honolulu, three(3) working days prior to commencing work on the street lighting system, ph. 523-4905.
- All relocated hwy. lighting standards along Moanalua Rd. & Ramp "E" shall be installed at new locations with new breakaway support couplings & skirt covers.



6-6-83	Relocated Hwy Lighting on Ramp "E" & "H".
4-18-83	Revised Hwy. Lighting system & Right-of Way line
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HIGHWAY LIGHTING PLAN

Interstate Route H-1
Pearl City Off-Ramp Improvements
F.A.I. Proj. No. I-IR-HI-1(165):10
Scale: As Shown Feb. 1983

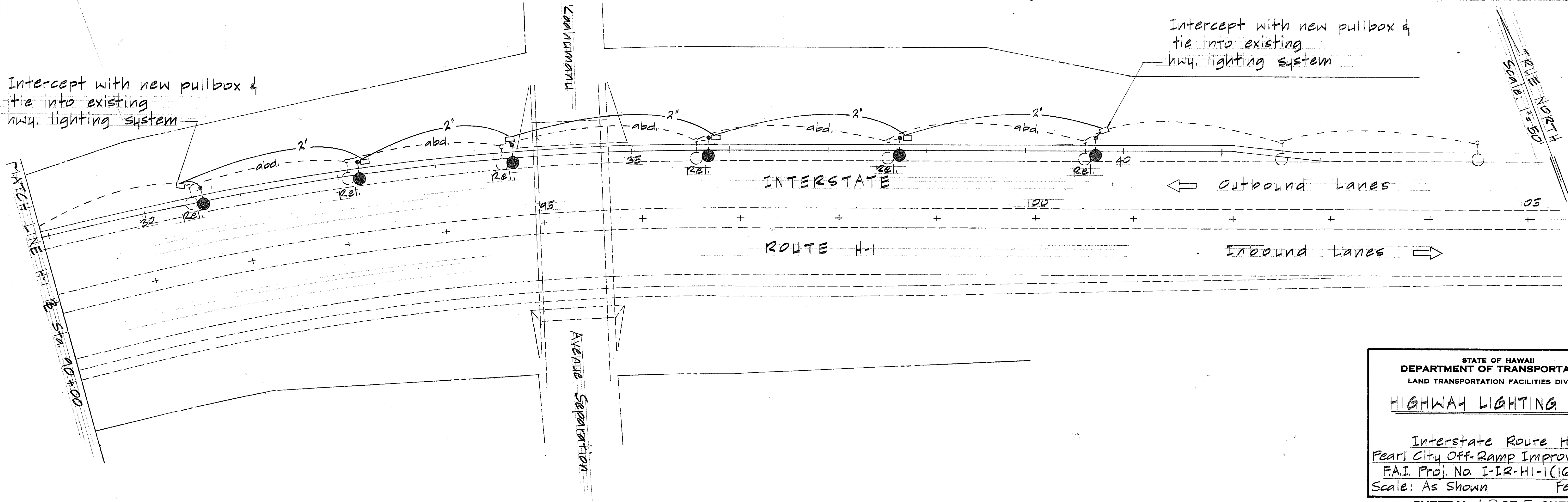
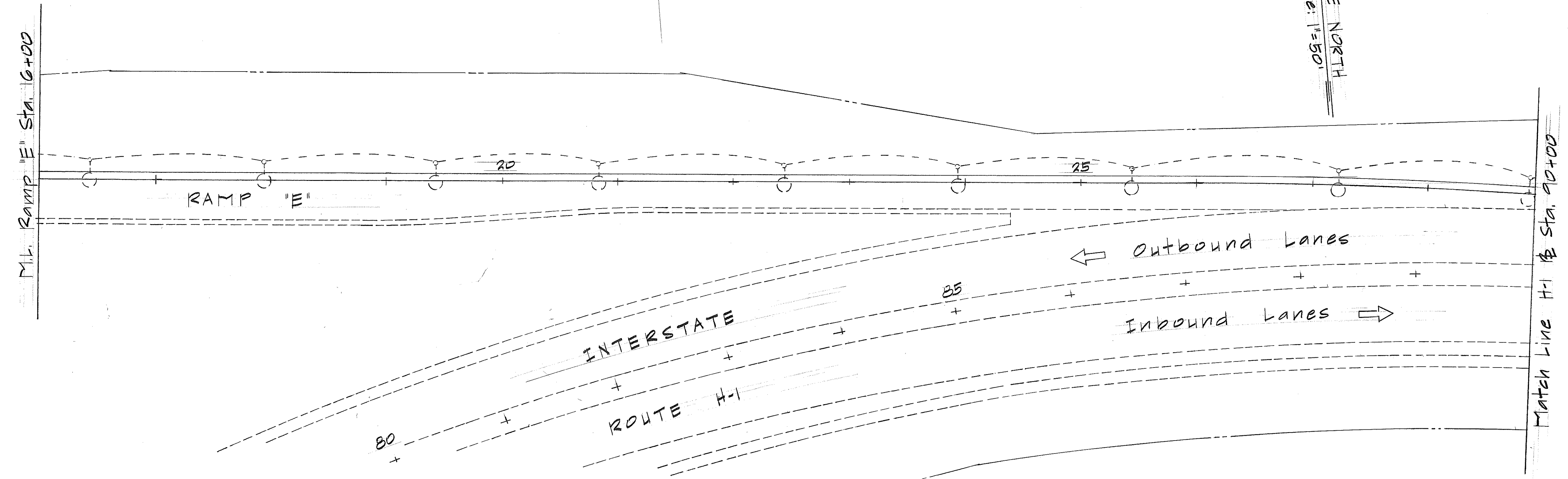
SHEET NO. 23 OF 5 SHEETS

C.O. ADD. 23

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

C-5-5

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-IR-HI-1(165):10	1983	24	64



ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

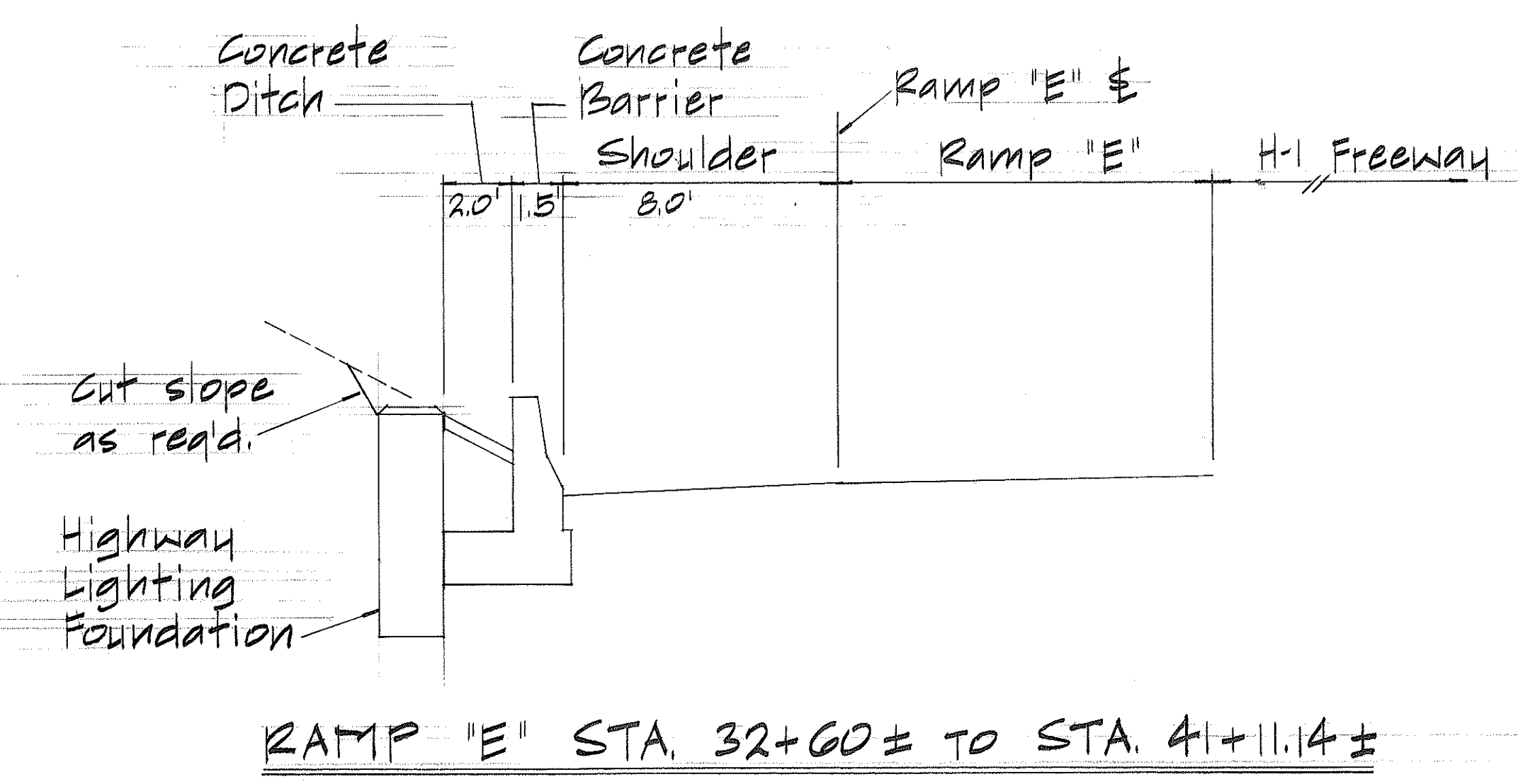
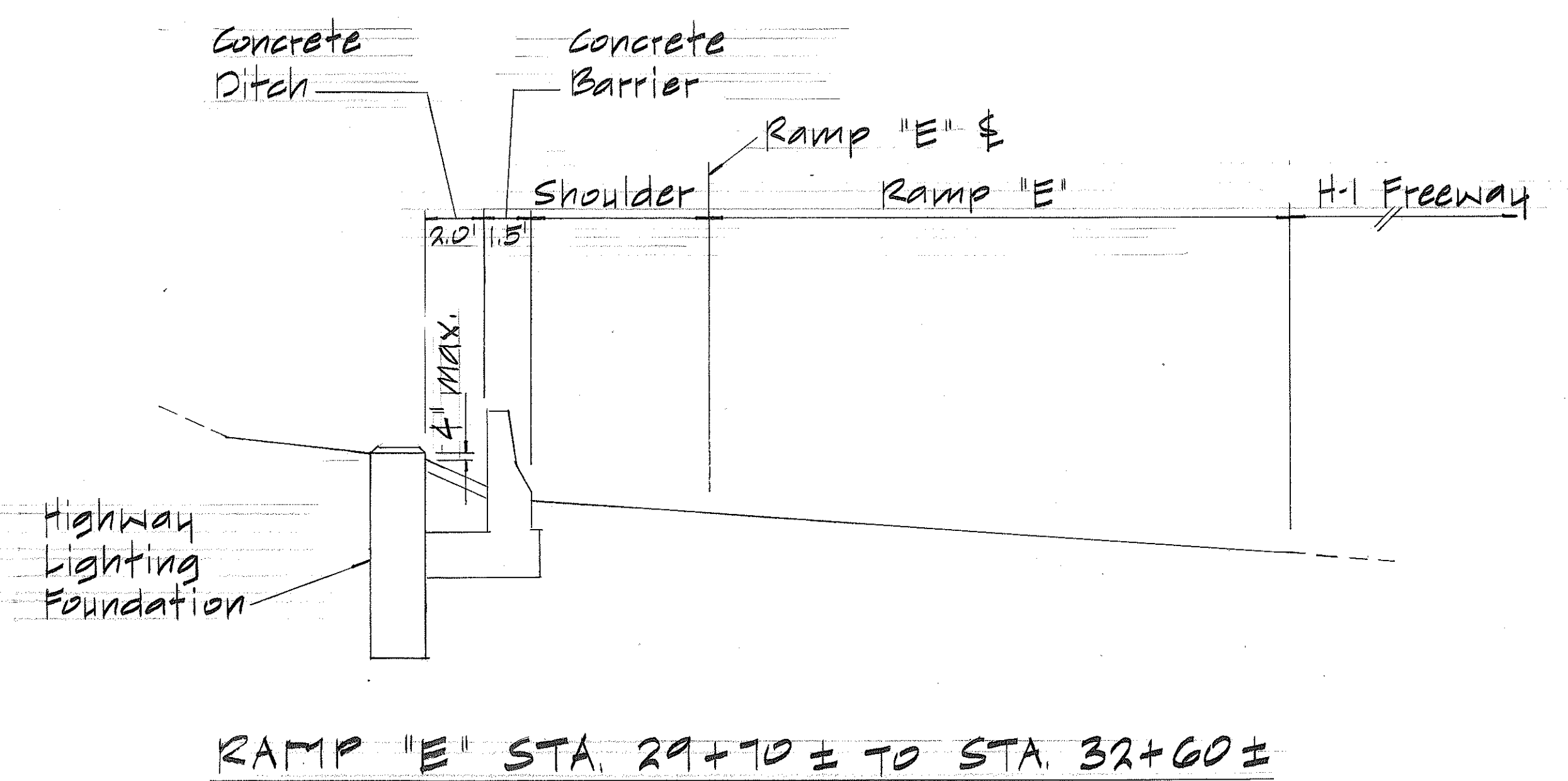
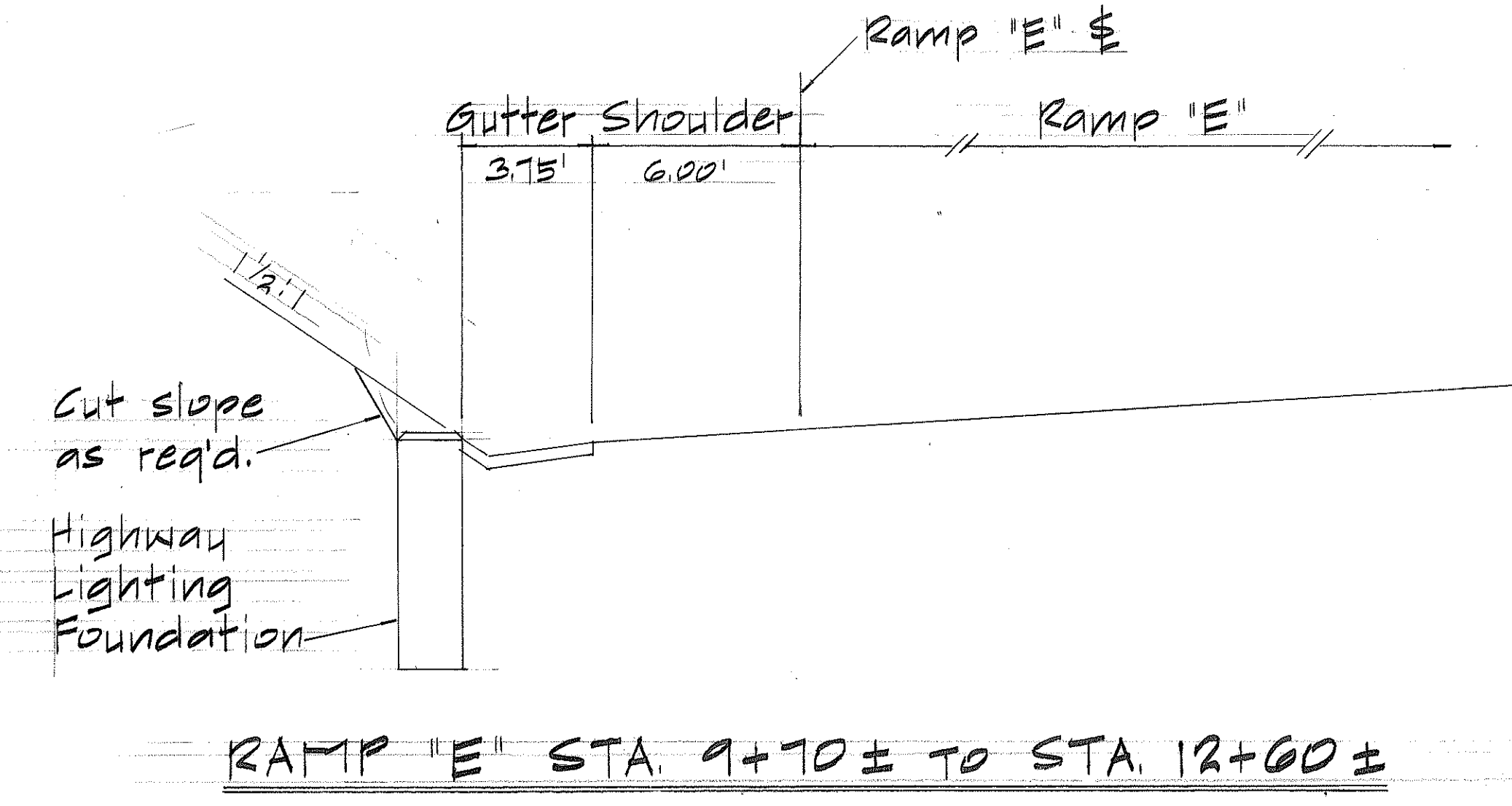
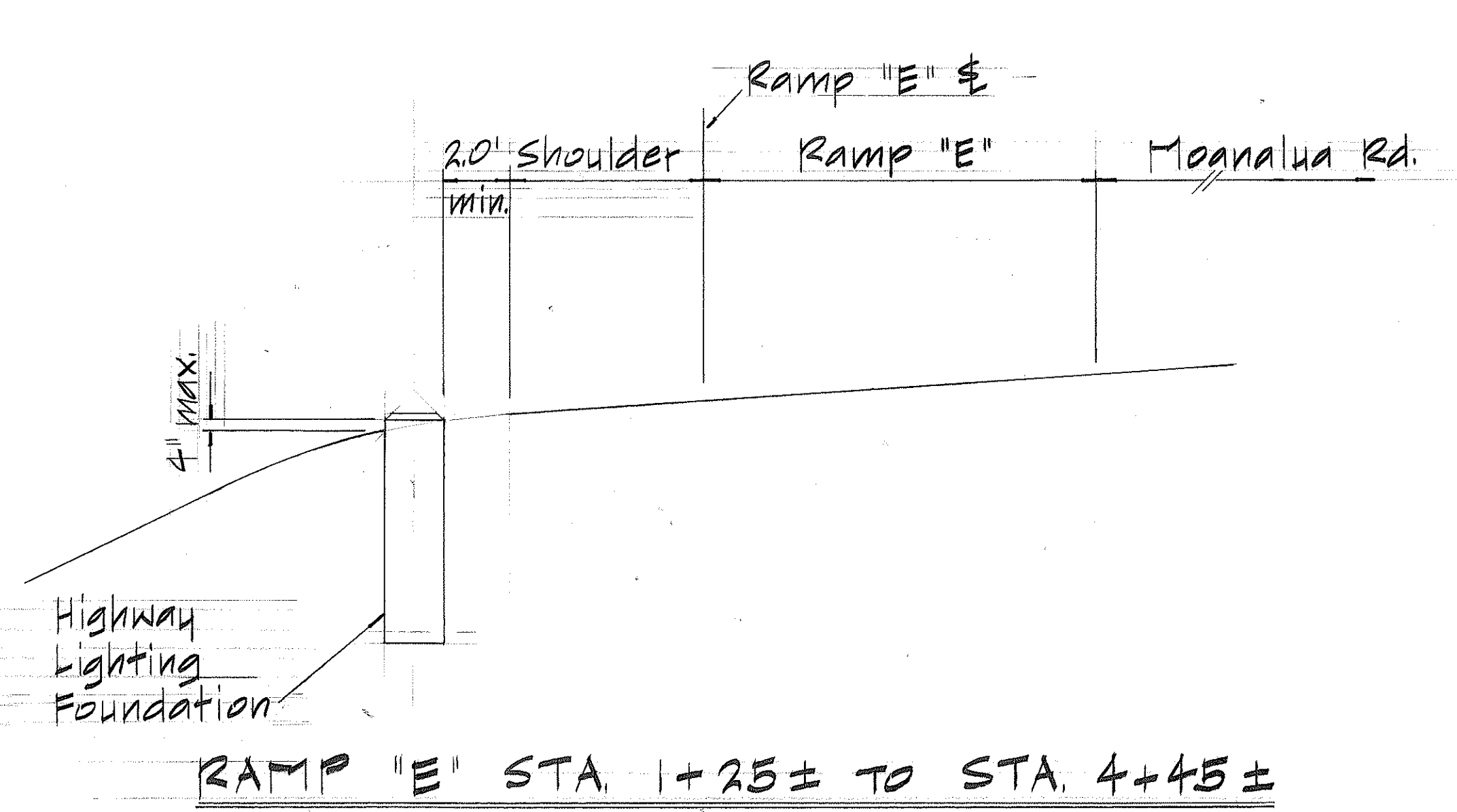
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

HIGHWAY LIGHTING PLAN

Interstate Route H-1
Pearl City Off-Ramp Improvements
FAI Proj. No. I-IR-HI-1(165):10
Scale: As Shown Feb. 1983

SHEET NO. 24 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-IR-HH-1(165):10	1983	25	64



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTE BOOK	
No.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

HIGHWAY LIGHTING PLAN

Interstate Route H-1
Pearl City Off-Ramp Improvements
F.A.I. Proj. No. I-IR-HH-1(165):10
Scale: 1/4"=1'-0" Feb. 1983

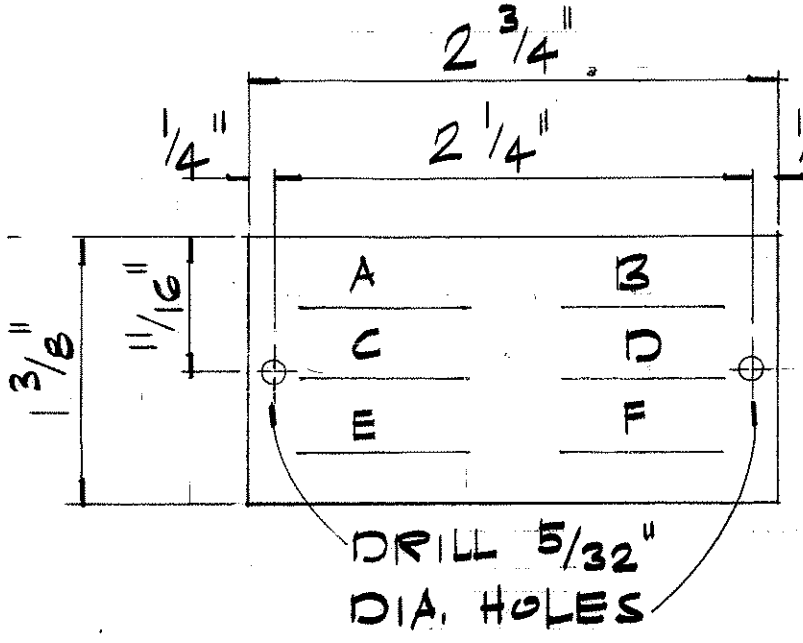
SHEET NO. 3 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-1R-H-1 (165) 10	1983	26	64

GENERAL NOTES

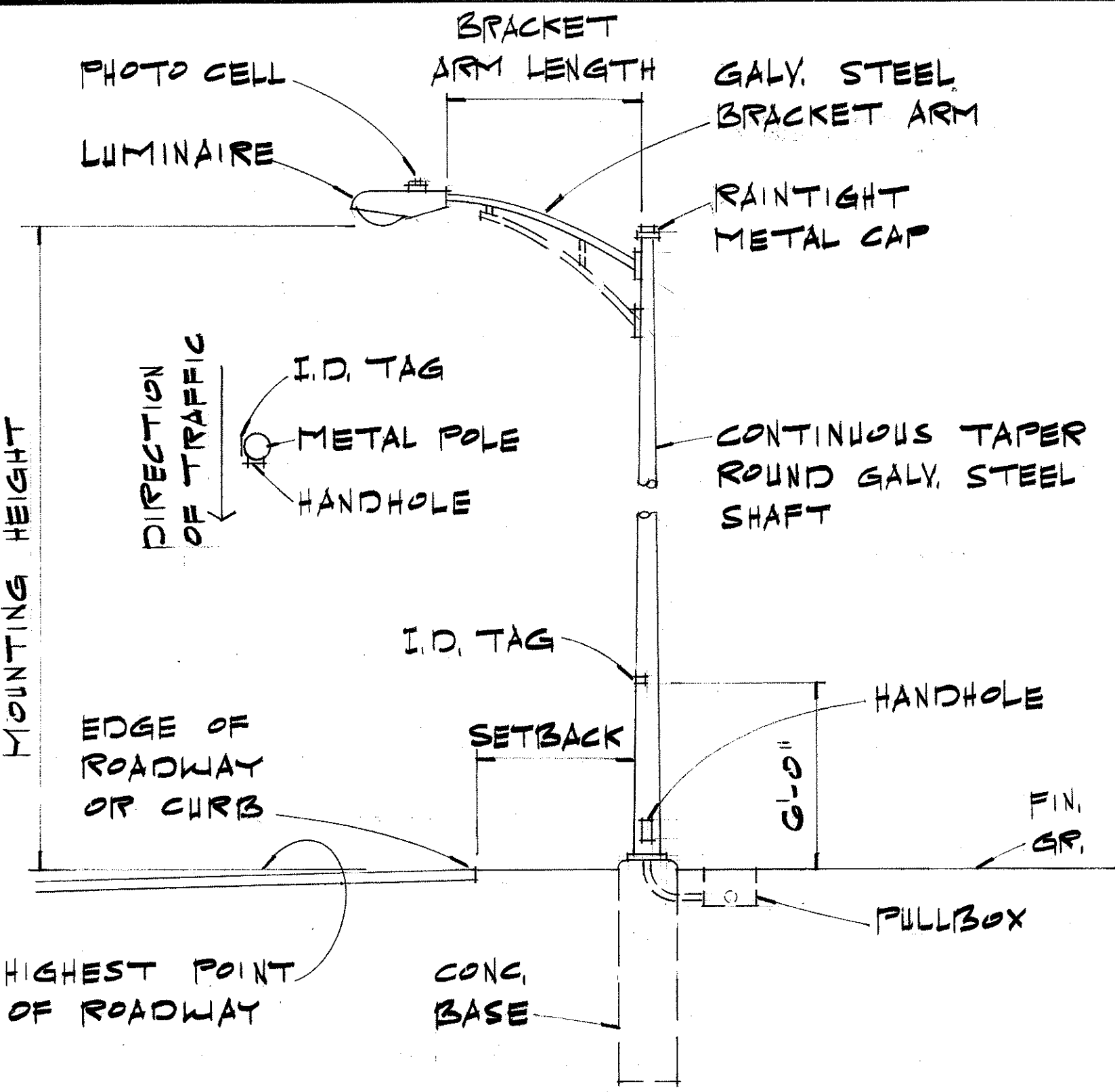
- ALL LUMINAIRES SHALL BE HIGH PRESSURE SODIUM TYPE W/ WATTAGE & IES TYPE LIGHT DISTRIBUTION AS SHOWN ON PLANS.
- ALL SECONDARY CIRCUIT EXTENSIONS TO SERVICE SHALL BE PROVIDED BY CONTRACTOR. ALL CONNECTIONS MADE BY SUBJECT TO CHARGE SHALL BE PAID BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING & INFORMING OF STREET LIGHT LOCATIONS ON PROJECT SITE PRIOR TO INSTALLATION OF SECONDARY CIRCUIT CONNECTION.
PH.# 72 HOURS IN ADVANCE OF COMMENCING INSTALLATION OF STREET LIGHT SYSTEM.
- THE CONTRACTOR SHALL NOTIFY & COORDINATE WORK W/ THE STATE ELECTRICAL MAINTAINANCE SECTION, ADD: IN ADVANCE OF COMMENCING INSTALLATION OF STREET LIGHT SYSTEM.
- THE CONTRACTOR SHALL LOCATE & VERIFY EXISTING STREET LIGHT SECONDARY VOLTAGE BEFORE ORDERING LIGHTING EQUIPMENT.

* ENGRAVING SCHEDULE



IDENTIFICATION TAG FOR MULTIPLE STREET LIGHTING

- NOT TO SCALE
- NOTE:
- MAKE FROM 3-PLY LAMINATED PLASTIC (BLACK-WHITE-BLACK) W/ 1/8" HIGH COMMERCIAL GOTHIC LETTERS ENGRAVED.
 - ATTACH TO POLE W/ #7 CADMIUM PLATED SCREWS.



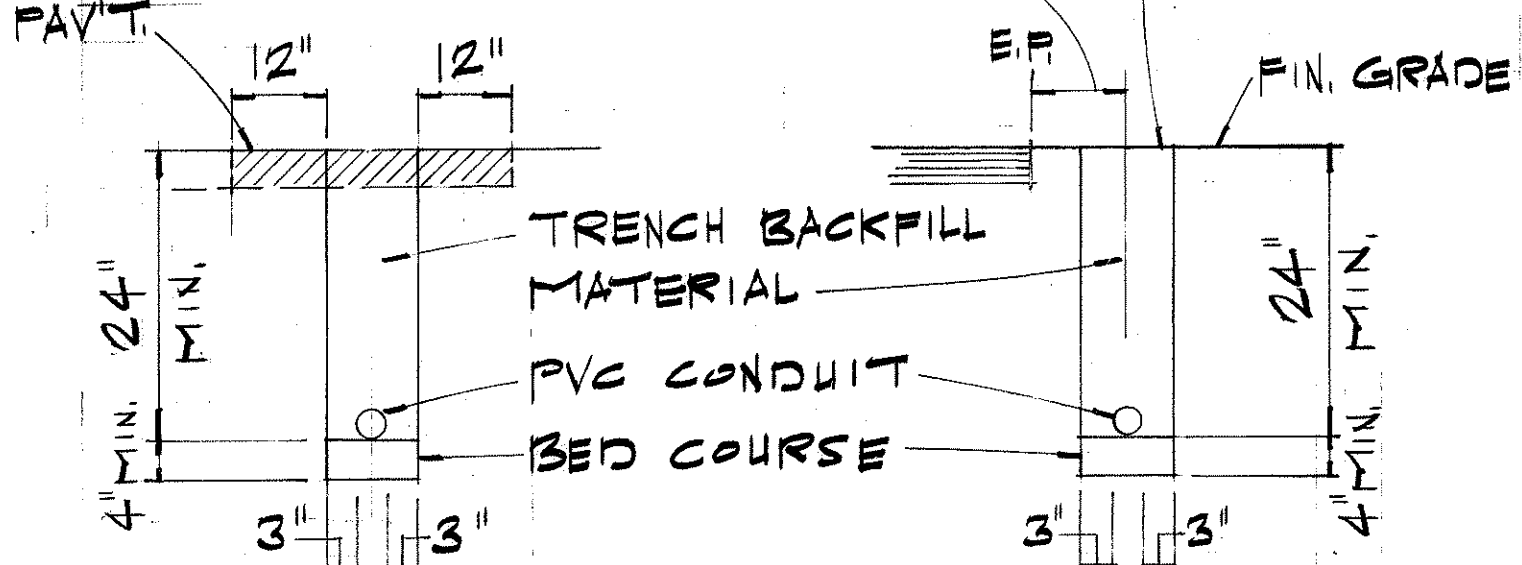
STREET LIGHT DETAIL

SCALE: 1/4" = 1'-0"

RESTORE TO MATCH EXIST. ROADWAY OR SIDEWALK PAVT.

18" MIN. UNLESS OTHERWISE SHOWN ON PLANS

IF GRASSED AREA PROVIDE 6" TH. TOP. SOIL & SOD.

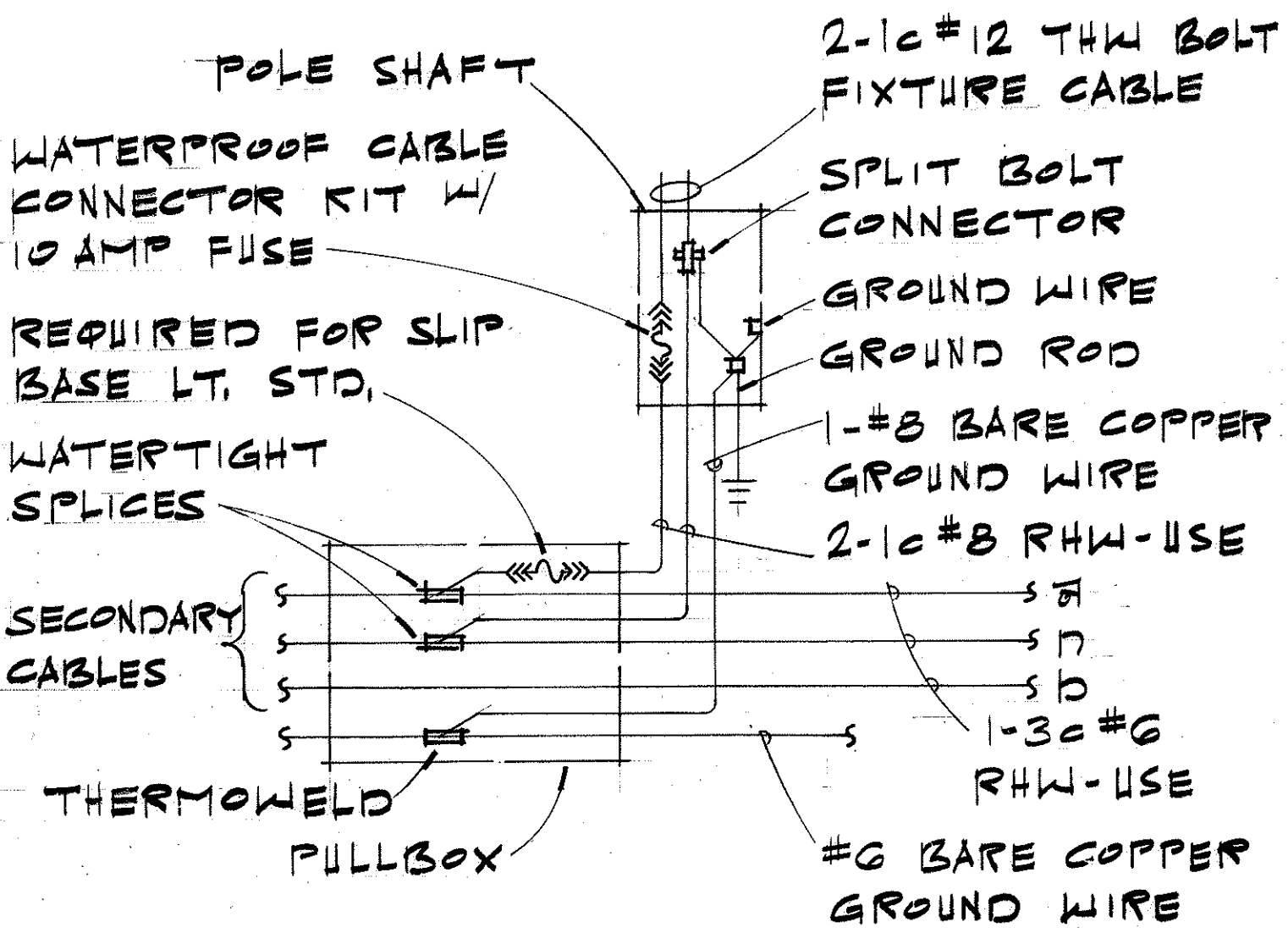


ROAD CROSSING EDGE OF SHOULDER OR CURB CROSSING

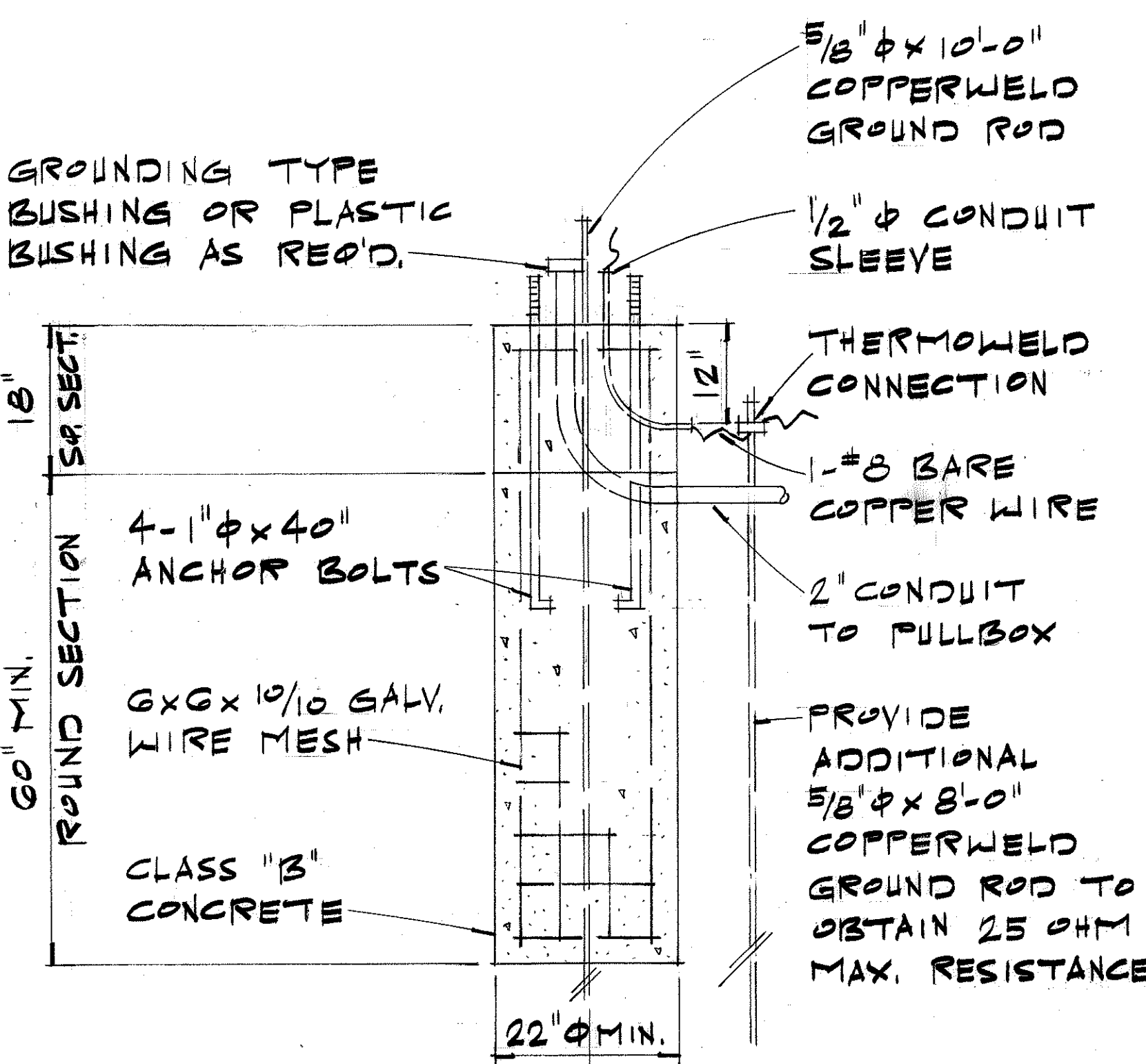
TYPICAL DUCT SECTION DETAIL

NOTE: SCALE: 1/2" = 1'-0"

FOR MULTIPLE CONDUIT LAYOUTS PROVIDE 3" CL. SPACING BETWEEN CONDUITS.

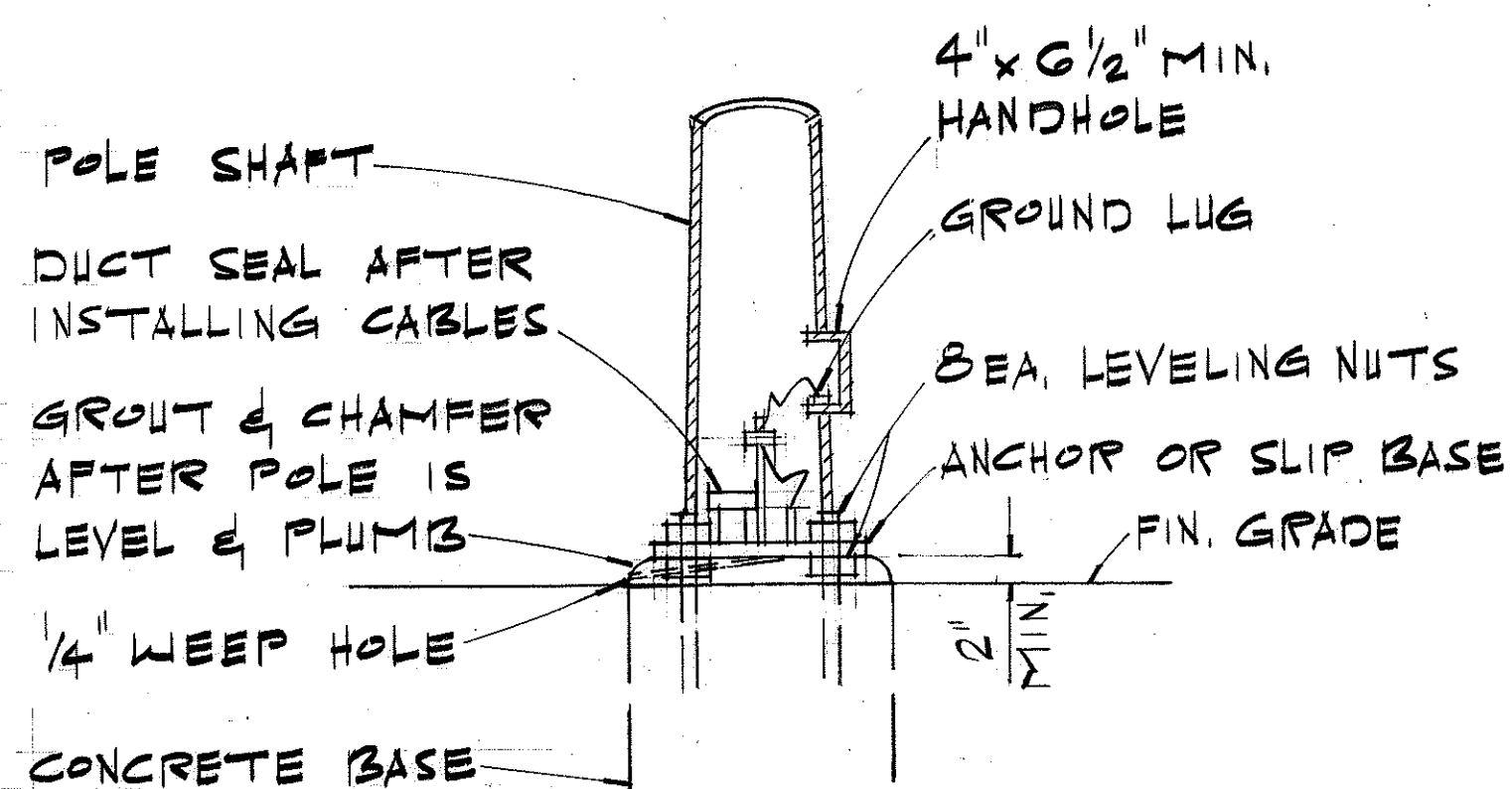


WIRING CONNECTION DIAGRAM



CONCRETE BASE DETAIL

SCALE: 3/4" = 1'-0"



POLE MOUNTING DETAIL

SCALE: 3/4" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

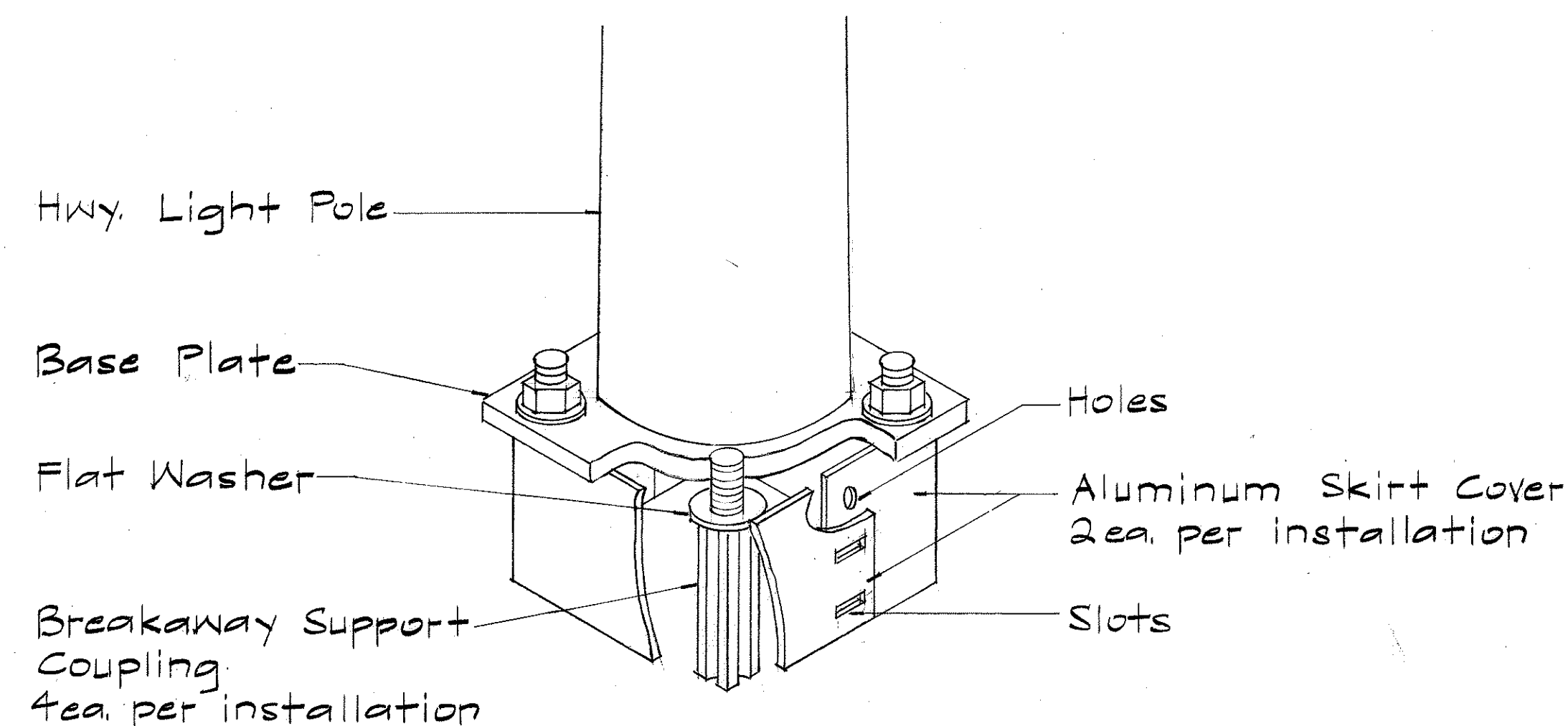
TYPICAL DETAILS
HIGHWAY LIGHTING LUMINAIRE
MOUNTED ON METAL POLE

SCALE: AS SHOWN

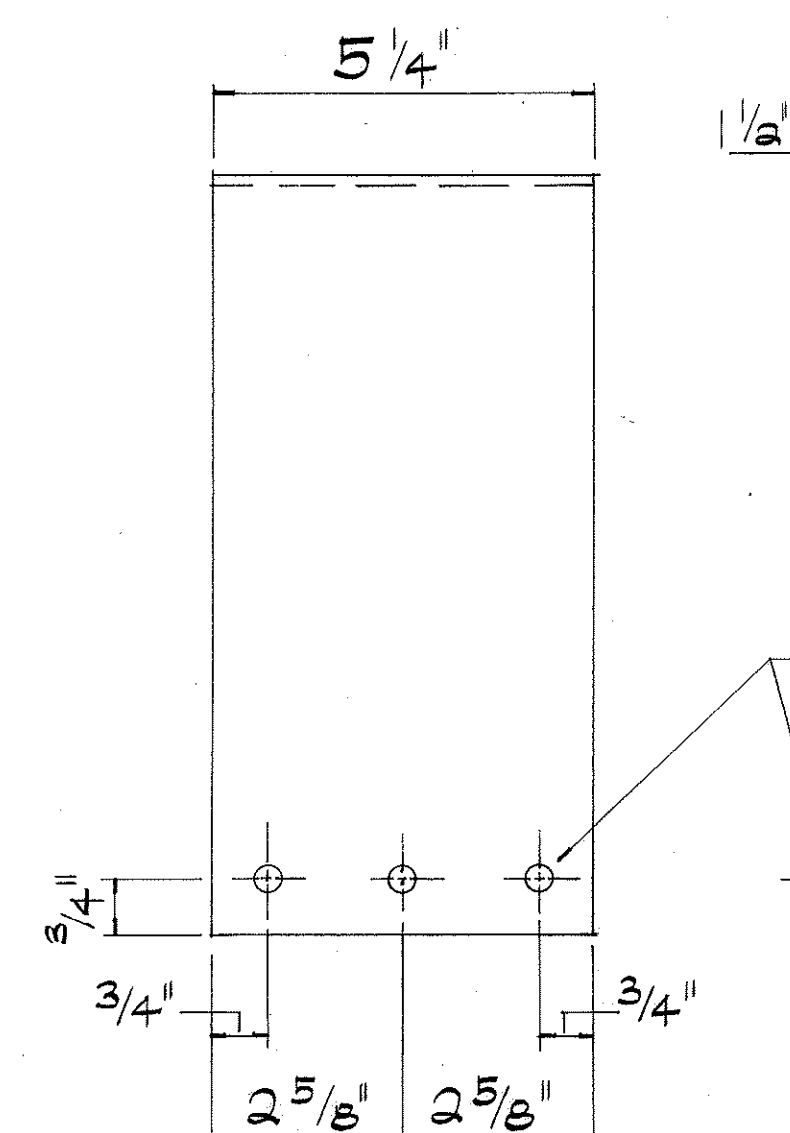
SHEET NO. 4 OF 5 SHEETS

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

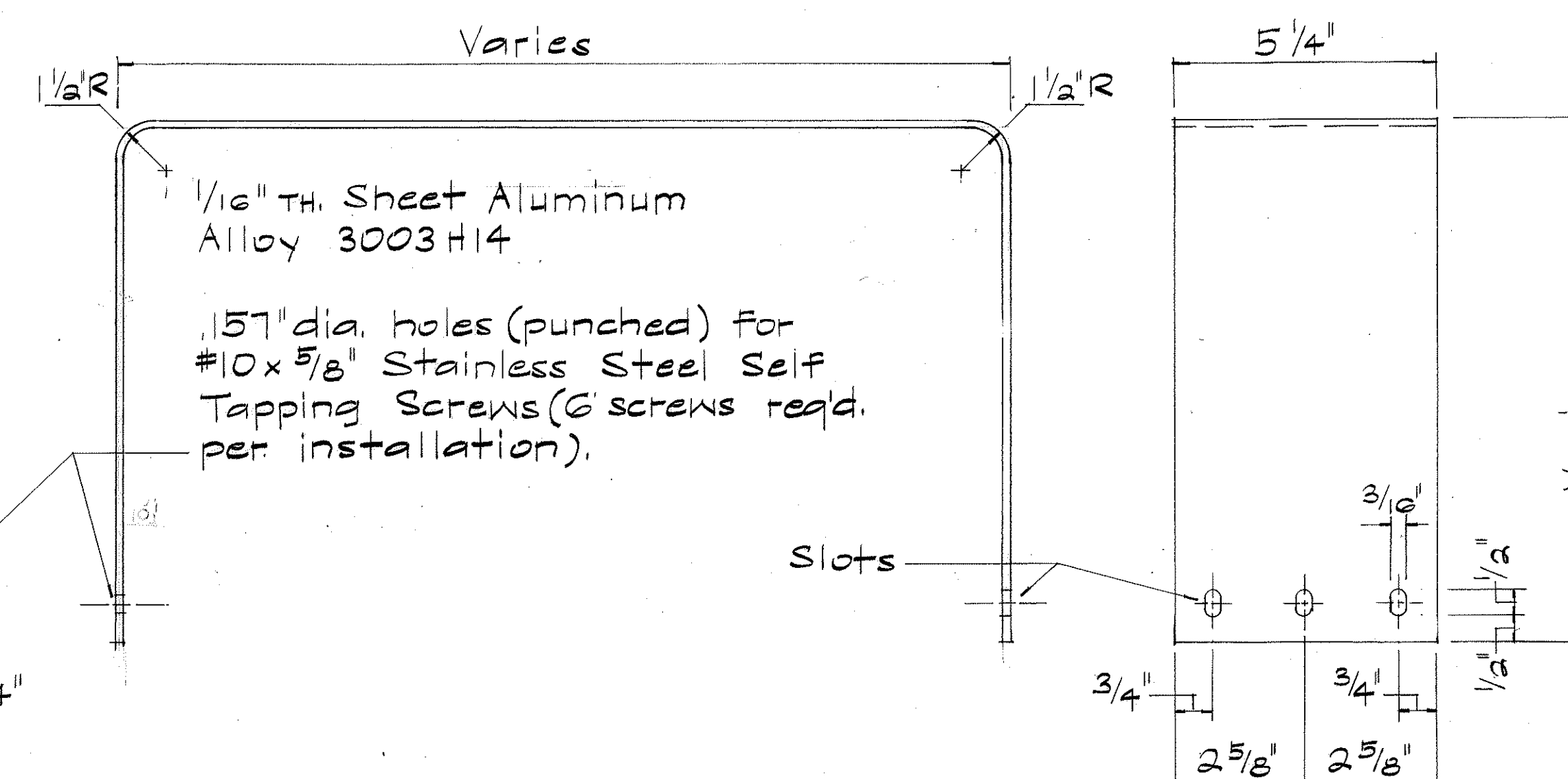
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IIR-HI-1(65)10	1983	27	64



SKIRT COVER DETAIL



LEFT SIDE VIEW



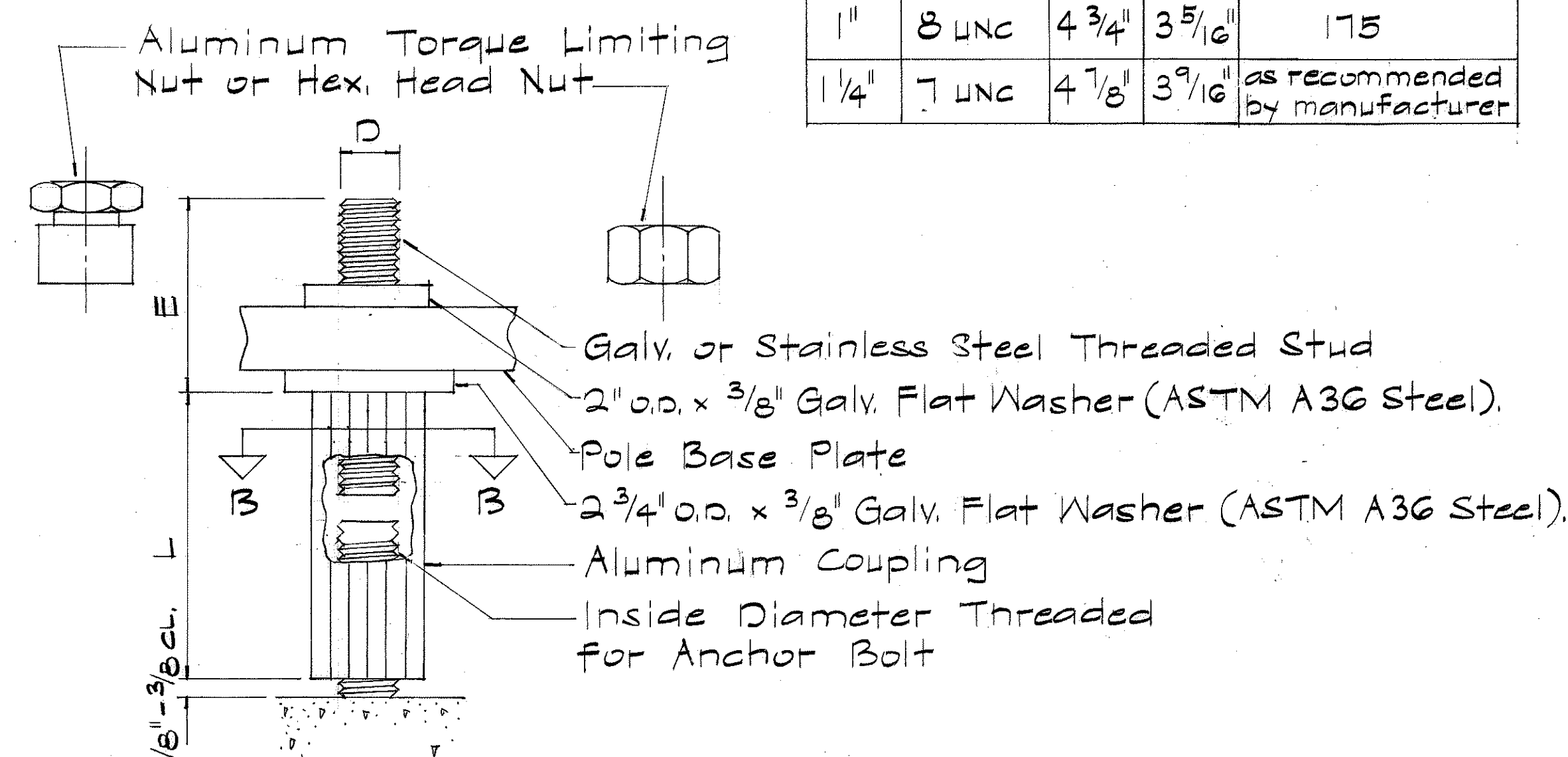
TOP VIEW

RIGHT SIDE VIEW

SKIRT COVER FOR BREAKAWAY SUPPORT COUPLING

Not to Scale

SECTION "B-B"



DETAIL "A"
Not to Scale

BREAKAWAY SUPPORT COUPLING

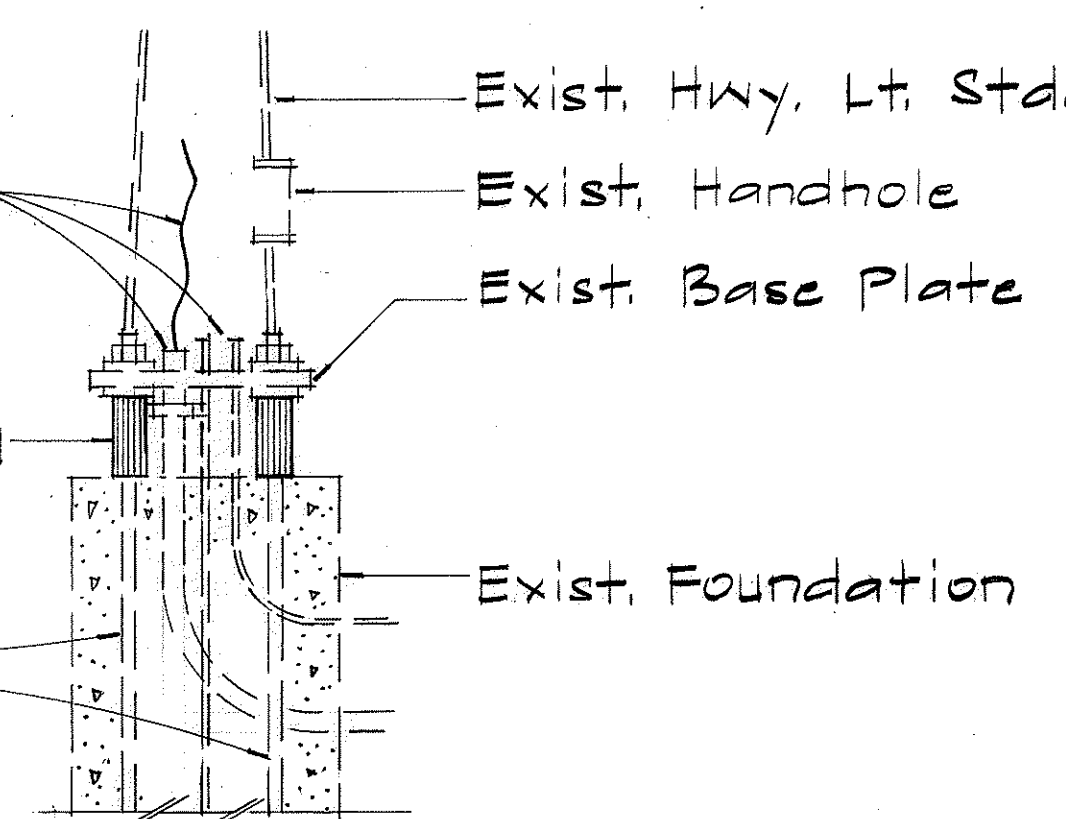
Scale: As Shown

DIMENSION SCHEDULE				
D	THREAD	L	E	NUT TORQUE ± 25 FT. LBS.
1"	8 UNC	4 3/4"	3 5/16"	175
1 1/4"	7 UNC	4 7/8"	3 9/16"	as recommended by manufacturer

Extend Cable & Conduit as req'd (Extensions to match existing)

Breakaway Support Coupling (See Detail "A")

Exist. Anchor Bolts



MOUNTING DETAIL

Scale: 3/4" = 1'-0"

GENERAL NOTES:

- Contractor shall verify size of exist. anchor bolts & base plates prior to ordering couplings & skirt covers.
- Breakaway support coupling shall conform to the applicable requirements of AASHTO standards & shall be fabricated from either die cast aluminum alloy 380 according to ASTM B85, or extruded from alloy 2024-T8511 according to ASTM B221.
- Hex. nut shall meet the requirements of ASTM A563 grade A, and ANSI B18.2.2.
- Torque nut shall be fabricated from aluminum alloy and grooved to separate at the specified torque.
- Threaded stud shall meet the requirements of ASTM A 675 grade 90 or AISI stainless steel.
- Details shown are for anchor bases. Highway lighting standards with transformer bases shall be similarly installed with appropriate modifications.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
TYPICAL DETAILS
BREAKAWAY SUPPORT
COUPLING & SKIRT COVER

Scale: As Shown

SHEET NO. 5 OF 5 SHEETS